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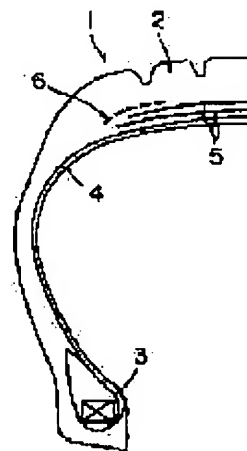
(54) PNEUMATIC RADIAL TIRE

(57)Abstract:

PURPOSE: To improve the high speed durability without generating a trouble such as a poor workability and a rupture, by making a belt edge cover layer cord wound on a belt layer in a double-twist twisting structure, of a specific quality of fiber cord, a specific twist coefficient, and a specific residual stress.

CONSTITUTION: A belt edge cover layer 6 is arranged making its width in 10 to 40% of the maximum width of a belt layer 5 in the radius direction, its end at the position 0 to 20mm from the endmost part of the belt layer 5 in the shoulder direction, and a cord is wound on the belt layer 5. Furthermore, the cord is made of a double-twist twisting structure of an aliphatic polyamide fiber, and made in $1500 \leq \text{total denier (D)} \leq 4000$; $0.06 \leq \text{twist coefficient (Nl)} \leq 0.30$; and $80\text{kgf} \leq \text{residual tension (Fw)} \leq 400\text{kgf}$. In this formula, $Nl = T \times (0.139 \times D / \delta)^{1/2} \times 10^{-3}$, and $Fw = F \times E \times$

member sheet number. Where T: twist number (number/10cm), δ : specific gravity (g/cm³), F: the residual stress per one cord of the belt edge cover layer 6 immediately after the application, and E: the bending number per 5cm in the tire width direction. Consequently, a high speed durability can be improved without generating a trouble such as a poor workability, a rupture, and a tire deformation.



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